

Please type a plus sign (+) inside this box ☐



PTO/SB/05 (11-00)
Approved for use through 10/31/2002. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

TI-34871

First Inventor

McAdams

Title

CIRCUIT AND METHOD FOR REDUCING FATIGUE IN
FERROELECTRIC MEMORIES

Express Mail Label No.

ER 039328199 US

03936 U.S. PTO
10/26/03
08/19/03

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)

2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.

3. ☒ Specification (preferred arrangement set forth below) [Total Pages **30**]

- Descriptive title of the Invention
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total **8**]
Sheets

5. Oath or Declaration [Total **1**]

- a. ☒ Newly Executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)

i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. ☐ CD-ROM or CD-R (2 copies); or

ii. ☐ paper

c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & documents(s))

10. ☒ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney

11. ☐ English Translation Document (if applicable)

12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations

13. ☐ Preliminary Amendment

14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)

16. ☐ Request and Certification under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35
or its equivalent.

17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: _____

Prior application information:

Examiner

Group / Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS



Customer Number or Bar Code Label

23494

(Insert Customer No. or Attach bar code label here)



Correspondence address below

NAME

Texas Instruments Incorporated

ADDRESS

CITY

STATE

ZIP CODE

COUNTRY

TELEPHONE

972-917-5440

FAX

(972)917-4418

Name (Print/Type)

Robert N. Rountree

Registration No. (Attorney/Agent)

39,347

Signature

Robert N. Rountree

Date

8/19/03

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

08/19/03
13142 U.S. PTO

FEE TRANSMITTAL for FY 2003				Complete If Known																																																																																																																																																																																											
Patent fees are subject to annual revision. Express Mailing Label No.: ER 039328199 US				Application Number		TBD																																																																																																																																																																																									
				Filing Date		August 19, 2003																																																																																																																																																																																									
				First Named Inventor		McAdams																																																																																																																																																																																									
				Examiner Name		TBD																																																																																																																																																																																									
				Group Art Unit		TBD																																																																																																																																																																																									
				Attorney Docket No.		TI-34871																																																																																																																																																																																									
TOTAL AMOUNT OF PAYMENT		\$ 896																																																																																																																																																																																													
METHOD OF PAYMENT				FEE CALCULATION (continued)																																																																																																																																																																																											
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Deposit Account Number 20-0668 Deposit Account Name Texas Instruments Incorporated </div> <div style="width: 50%;"> <input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 </div> </div>				3. ADDITIONAL FEES <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee of oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>400</td><td>216</td><td>195</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>920</td><td>217</td><td>445</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,440</td><td>218</td><td>695</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>1,960</td><td>228</td><td>945</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>320</td><td>219</td><td>155</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>320</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>280</td><td>221</td><td>135</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,280</td><td>241</td><td>620</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,280</td><td>242</td><td>620</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>460</td><td>243</td><td>220</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>620</td><td>244</td><td>300</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>123</td><td>130</td><td>Petitions related to Prov'l Apps (Proc. Fee under 37 CFR 1.17(a))</td><td></td></tr> <tr><td>1806</td><td>180</td><td>126</td><td>180</td><td>Submission of information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times no. of properties)</td><td></td></tr> <tr><td>1809</td><td>740</td><td>246</td><td>355</td><td>Filing a submission after final rejection (37 CFR §1.129(a))</td><td></td></tr> <tr><td>1810</td><td>740</td><td>249</td><td>355</td><td>For each additional invention to be examined (37 CFR §1.129(b))</td><td></td></tr> <tr><td>1801</td><td>740</td><td>279</td><td>355</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>1802</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	205	65	Surcharge - late filing fee of oath		1052	50	227	25	Surcharge - late provisional filing fee or cover sheet		1053	130	139	130	Non-English specification		1812	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination		1804	920*	112	920*	Requesting publication of SIR prior to Examiner action		1805	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		1251	110	215	55	Extension for reply within first month		1252	400	216	195	Extension for reply within second month		1253	920	217	445	Extension for reply within third month		1254	1,440	218	695	Extension for reply within fourth month		1255	1,960	228	945	Extension for reply within fifth month		1401	320	219	155	Notice of Appeal		1402	320	220	155	Filing a brief in support of an appeal		1403	280	221	135	Request for oral hearing		1451	1,510	138	1,510	Petition to institute a public use proceeding		1452	110	240	55	Petition to revive - unavoidable		1453	1,280	241	620	Petition to revive - unintentional		1501	1,280	242	620	Utility issue fee (or reissue)		1502	460	243	220	Design issue fee		1503	620	244	300	Plant issue fee		1460	130	122	130	Petitions to the Commissioner		1807	50	123	130	Petitions related to Prov'l Apps (Proc. Fee under 37 CFR 1.17(a))		1806	180	126	180	Submission of information Disclosure Stmt		8021	40	581	40	Recording each patent assignment per property (times no. of properties)		1809	740	246	355	Filing a submission after final rejection (37 CFR §1.129(a))		1810	740	249	355	For each additional invention to be examined (37 CFR §1.129(b))		1801	740	279	355	Request for Continued Examination (RCE)		1802	900	169	900	Request for expedited examination of a design application		Other fee (specify) _____					
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																										
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																												
1051	130	205	65	Surcharge - late filing fee of oath																																																																																																																																																																																											
1052	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																											
1053	130	139	130	Non-English specification																																																																																																																																																																																											
1812	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination																																																																																																																																																																																											
1804	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																											
1805	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																											
1251	110	215	55	Extension for reply within first month																																																																																																																																																																																											
1252	400	216	195	Extension for reply within second month																																																																																																																																																																																											
1253	920	217	445	Extension for reply within third month																																																																																																																																																																																											
1254	1,440	218	695	Extension for reply within fourth month																																																																																																																																																																																											
1255	1,960	228	945	Extension for reply within fifth month																																																																																																																																																																																											
1401	320	219	155	Notice of Appeal																																																																																																																																																																																											
1402	320	220	155	Filing a brief in support of an appeal																																																																																																																																																																																											
1403	280	221	135	Request for oral hearing																																																																																																																																																																																											
1451	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																											
1452	110	240	55	Petition to revive - unavoidable																																																																																																																																																																																											
1453	1,280	241	620	Petition to revive - unintentional																																																																																																																																																																																											
1501	1,280	242	620	Utility issue fee (or reissue)																																																																																																																																																																																											
1502	460	243	220	Design issue fee																																																																																																																																																																																											
1503	620	244	300	Plant issue fee																																																																																																																																																																																											
1460	130	122	130	Petitions to the Commissioner																																																																																																																																																																																											
1807	50	123	130	Petitions related to Prov'l Apps (Proc. Fee under 37 CFR 1.17(a))																																																																																																																																																																																											
1806	180	126	180	Submission of information Disclosure Stmt																																																																																																																																																																																											
8021	40	581	40	Recording each patent assignment per property (times no. of properties)																																																																																																																																																																																											
1809	740	246	355	Filing a submission after final rejection (37 CFR §1.129(a))																																																																																																																																																																																											
1810	740	249	355	For each additional invention to be examined (37 CFR §1.129(b))																																																																																																																																																																																											
1801	740	279	355	Request for Continued Examination (RCE)																																																																																																																																																																																											
1802	900	169	900	Request for expedited examination of a design application																																																																																																																																																																																											
Other fee (specify) _____																																																																																																																																																																																															
2. Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other				2. BASIC FILING FEE <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1001</td><td>740</td><td>201</td><td>355</td><td>Utility filing fee</td><td>\$740</td></tr> <tr><td>1002</td><td>330</td><td>206</td><td>160</td><td>Design filing fee</td><td></td></tr> <tr><td>1003</td><td>510</td><td>207</td><td>245</td><td>Plant filing fee</td><td></td></tr> <tr><td>1004</td><td>740</td><td>208</td><td>355</td><td>Reissue filing fee</td><td></td></tr> <tr><td>1005</td><td>160</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> <tr><td colspan="5" style="text-align: right;">SUBTOTAL (1)</td><td>\$740</td></tr> </tbody> </table>				Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1001	740	201	355	Utility filing fee	\$740	1002	330	206	160	Design filing fee		1003	510	207	245	Plant filing fee		1004	740	208	355	Reissue filing fee		1005	160	214	75	Provisional filing fee		SUBTOTAL (1)					\$740																																																																																																																																														
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																										
1001	740	201	355	Utility filing fee	\$740																																																																																																																																																																																										
1002	330	206	160	Design filing fee																																																																																																																																																																																											
1003	510	207	245	Plant filing fee																																																																																																																																																																																											
1004	740	208	355	Reissue filing fee																																																																																																																																																																																											
1005	160	214	75	Provisional filing fee																																																																																																																																																																																											
SUBTOTAL (1)					\$740																																																																																																																																																																																										
2. EXTRA CLAIM FEES <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th colspan="2">Total Claims</th> <th colspan="2">Extra Claims</th> <th colspan="2">Fee from below</th> <th colspan="2">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>-20**=</td> <td>4</td> <td>18</td> <td></td> <td>72</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>-3**=</td> <td>1</td> <td>84</td> <td></td> <td>84</td> <td></td> <td></td> </tr> <tr> <td colspan="8">Multiple Dependent _____</td> </tr> </tbody> </table>				Total Claims		Extra Claims		Fee from below		Fee Paid		24	-20**=	4	18		72			4	-3**=	1	84		84			Multiple Dependent _____								<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1202</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>84</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>280</td><td>204</td><td>135</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>84</td><td>209</td><td>40</td><td>**Reissue independent claims over original patent</td><td></td></tr> <tr><td>1205</td><td>18</td><td>210</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="5" style="text-align: right;">SUBTOTAL (2)</td><td>\$156</td></tr> </tbody> </table>				Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1202	18	203	9	Claims in excess of 20		1201	84	202	40	Independent claims in excess of 3		1203	280	204	135	Multiple dependent claim, if not paid		1204	84	209	40	**Reissue independent claims over original patent		1205	18	210	9	**Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					\$156																																																																																																														
Total Claims		Extra Claims		Fee from below		Fee Paid																																																																																																																																																																																									
24	-20**=	4	18		72																																																																																																																																																																																										
4	-3**=	1	84		84																																																																																																																																																																																										
Multiple Dependent _____																																																																																																																																																																																															
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																										
1202	18	203	9	Claims in excess of 20																																																																																																																																																																																											
1201	84	202	40	Independent claims in excess of 3																																																																																																																																																																																											
1203	280	204	135	Multiple dependent claim, if not paid																																																																																																																																																																																											
1204	84	209	40	**Reissue independent claims over original patent																																																																																																																																																																																											
1205	18	210	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																																											
SUBTOTAL (2)					\$156																																																																																																																																																																																										
**or number previously paid, if greater; For Reissue, see above				*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0																																																																																																																																																																																											
SUBMITTED BY		R b r t N. Rountr e		Registration No.		39,347																																																																																																																																																																																									
Name (Print/Type)		Robert N. Rountr e		Telephone		(719) 783-0990																																																																																																																																																																																									
Signature		<i>Robert N. Rountr e</i>		Date		8/19/03																																																																																																																																																																																									